

Product datasheet for **RC227773**

WDR79 (WRAP53) (NM_001143991) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR79 (WRAP53) (NM_001143991) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR79
Synonyms:	DKCB3; TCAB1; WDR79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227773 representing NM_001143991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCTTCAGACCAGGACCCAGCTCCAGCCC
 ATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAACTGATGCCACCGCTCCCCAAAAG
 GGGGATCCGCCCGGTTGTCCCAAGTCTGTGGCTGGCTCAGCTGTGTCCAGGAGCTACGGGAGGGG
 GACCCAGTTTCTCTCCACTCCCTGGAAACAGAGTTTGGTTCCCTAGTGAGTTGAGTCTCGAATCG
 AGGAGCAAGAAGTTTCTGAAAATAACAAGCTTCTGCAGAAGAAGCAAACGGGAGCCTTTCTGAAGAAGA
 AGCGAACGGGCCAGAGTTGGGTCTGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGAC
 GAGGGAGACCCGCTTGGAACTACAGCTTCTCCAGCTGCCTCGATTTCTCAGTGGTTCTGGTCAGAGT
 TCAGCACCAACCTGAGAACTTCTTGAAGGCTGTAAGTGGCTCCTGACGGTTCTGCATTTGACCAA
 TAGTGCTGATAACATCTTGCGAATTTATAACCTGCCCCAGAGCTGTACCATGAGGGGAGCAGGTGGAA
 TATGCAGAAATGGTCCCTGTCTTGAATGGTGAAGGTGATACCATCTATGATTACTGTGGTATTCTC
 TGATGTCTCAGCCCAGCCAGACACCTCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTCTATCTG
 GGACGATTCACTGGAGAGCTCCGGGCTTCTTTCGCGCTACAACCACCTGGATGAGCTGACGGCAGCC
 CATTTCGCTCTGCTTCTCCCCGGATGGCTCCAGCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTT
 CCACGGCCCGGCTGGCCGAGACTGCGAGGTCCGAGCCACATTTGCAAAAAGCAGGGCCAGAGCGGCAT
 CATCTCTGCATAGCCTTCAAGCCAGCCAGCCCTCTATGCCTGTGGCTCCTACGGCCGCTCCCTGGGT
 CTGTATGCCTGGATGATGGCTCCCTCTCGCTTGTGGGAGGGACCAAGGGGGCATCACCCAGCTCT
 GCTTTCTCCCGATGGCAACCGCTTCTTCTCAGGAGCCGCAAGGATGCTGAGCTCCTGTGCTGGATCT
 CCGGCAGTCTGGTTACCCACTGTGGTCCCTGGTTCGAGAGGTGACCACCAATCAGCGCATCTACTTCGAT
 CTGGACCCGACCGGCAGTTCTAGTGAGTGGCAGCAGCAGCGGGGCTGTCTCTGTGTGGACACGGACG
 GCCTGGCAATGATGGGAAGCCGGAGCCGTTGAGTTTTCTGCCCCAGAAGGACTGCACCAATGGCGT
 GAGCTGCACCCTAGCCTGCCTCTCTGGCCACTGCCTCCGGTCAGCGTGTGTTCTGAGCCACAGAG
 AGTGGGGACGAAGGAGAGGAGCTGGCCTTCCCTTGTCTCCACGCGCCACGTCCACCTTGATGTCGGC
 TTCAGCTCTGGTGTGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCA
 GGGAGGAACGGAGGGAGGTGTGGGTGAGCTGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227773 representing NM_001143991
 Red=Cloning site Green=Tags(s)

MKTLETQLAPDCCPSDQDPAPAHPSPHASPMKNADSELMPPPPERGDPPRLSPDPVAGSAVSQELREG
 DPVSLSTPLETEFGSPSELSPRIEEQELSENTSLPAEEANGSLSEEEANGPELGSKAMEDTSGEPAAED
 EGDRAWNYSFSQLPRFLSGSWSEFSTQPENFLKGCKWAPDGCILTNSADNILRIYNLPPELYHEGEQVE
 YAEMVPVLRMVEGDTIYDYCWYSLMSSAQPDTSYVASSRENPIHIWDAFTGELRASFRAYNHLDELTA
 HSLCFSPDGSQFCGFNRTRVRFSTARPRDCEVRATFAKKQGSIGIISCIASFPAQPLYACGSYGRSLG
 LYAWDDGSPLALLGGHQGGITHLCFHPDGNRFFSGARKDAELLCWDLRQSGYPLWSL GREVTTNQRIFYD
 LDPTGQFLVSGSTSGAVSVWDTDGPNGDKPEPVL SFLPQKDCNGLVSLHPSLPLLATASGQRFPEPTE
 SGDEGEELGLPLLSTRHVHLECRLLQLWCCGGAPDSSIPDDHQGEKGQGGTEGGVGELI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8078_d05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001143991

ORF Size: 1644 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001143991.2](#)

RefSeq Size: 1847 bp

RefSeq ORF: 1647 bp

Locus ID: 55135

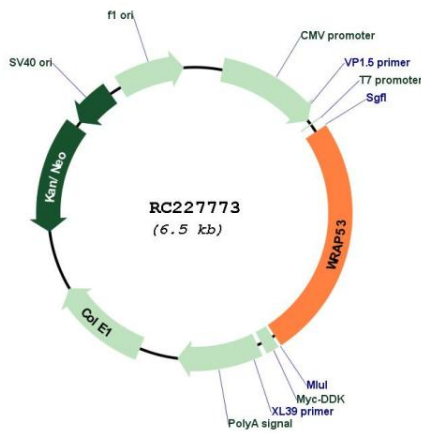
UniProt ID: [Q9BUR4](#)

Cytogenetics: 17p13.1

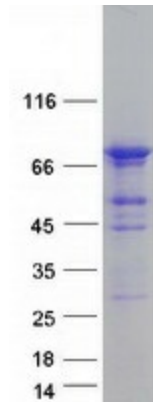
MW: 59.3 kDa

Gene Summary: This gene encodes an essential component of the telomerase holoenzyme complex, a ribonucleoprotein complex required for telomere synthesis. This protein is enriched in Cajal bodies, nuclear sites of RNP processing that are important for telomerase function. It interacts with dyskerin, TERT and TERC, other components of active telomerase, and with small Cajal body RNAs (scaRNAs), which are involved in modifying splicing RNAs. This mRNA also functions as a p53 antisense transcript, that regulates endogenous p53 mRNA levels and further induction of p53 protein by targeting the 5' untranslated region of p53 mRNA. Alternatively spliced transcript variants which differ only in the 5' UTR have been found for this gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC227773



Coomassie blue staining of purified WRAP53 protein (Cat# [TP327773]). The protein was produced from HEK293T cells transfected with WRAP53 cDNA clone (Cat# RC227773) using MegaTran 2.0 (Cat# [TT210002]).